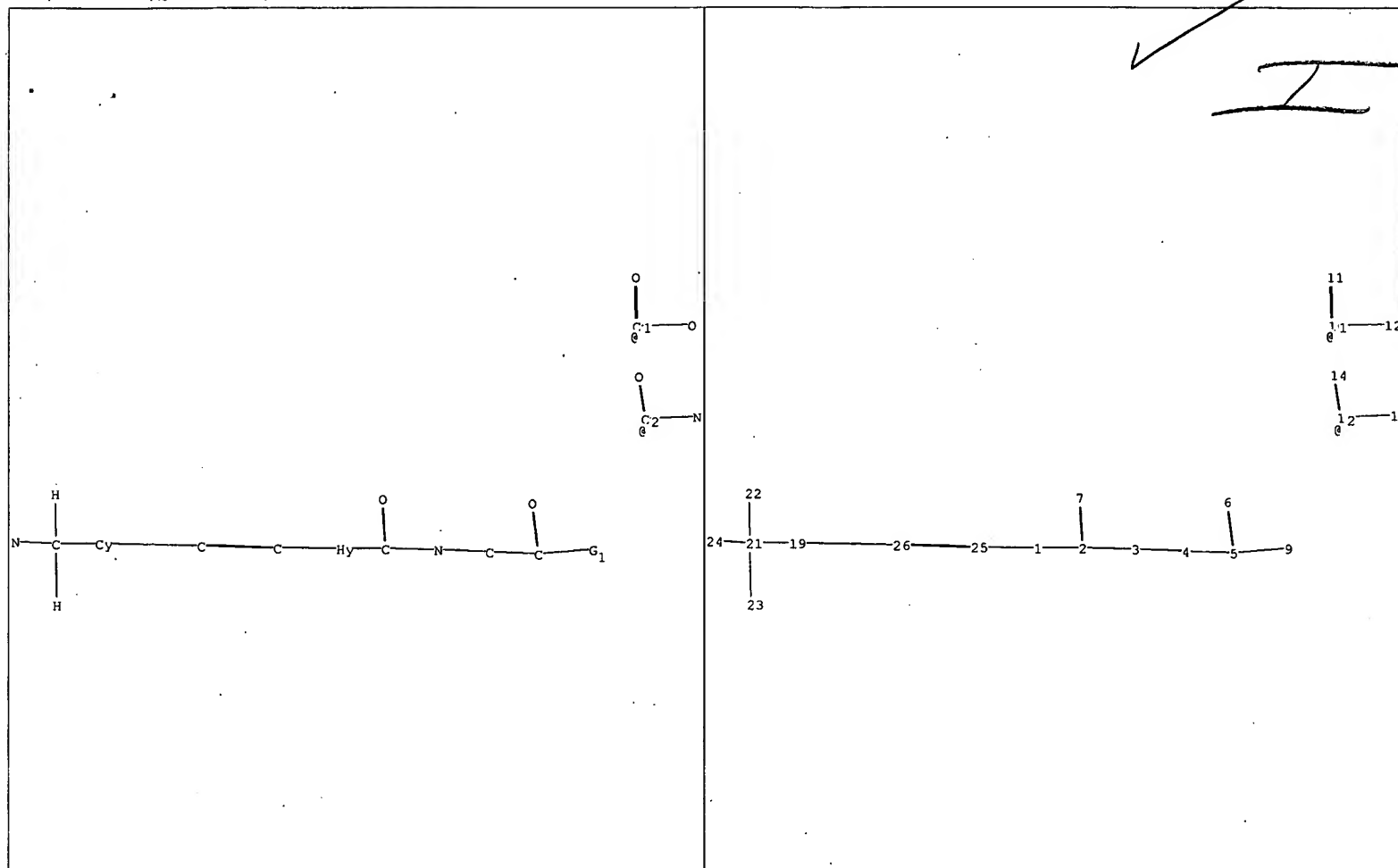


EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	28	pyridine-3-carboxamide near20 phenyl	US-PGPUB; USPAT	OR	OFF	2007/01/07 19:38
L8	66	pyridine-\$-carboxamide near20 phenyl	US-PGPUB; USPAT	OR	OFF	2007/01/07 19:33
L9	38	l8 not l7	US-PGPUB; USPAT	OR	OFF	2007/01/07 19:35
L10	453	nicotinamide near20 phenyl	US-PGPUB; USPAT	OR	OFF	2007/01/07 19:39



chain nodes :

1 2 3 4 5 6 7 9 10 11 12 13 14 19 21 22 23 25 26

ring/chain nodes :

15 24

chain bonds :

1-2 1-25 2-3 2-7 3-4 4-5 5-6 5-9 10-11 10-12 13-14 13-15 19-21 19-26 21-22
21-23 21-24 25-26

exact/norm bonds :

1-2 1-25 2-3 2-7 3-4 5-6 5-9 10-11 10-12 13-14 13-15 19-21 19-26 21-24

exact bonds :

4-5 21-22 21-23 25-26

G1:H, [*1], [*2]

Match level :

1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS 11:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS 19:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS
25:CLASS 26:CLASS

Generic attributes :

1:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

19:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

Element Count :

. Node 1: Limited

N,N1

O,O0

S,S0

Node 19: Limited

N,N0-1

O,O0

S,S0

11/291216

\$%^STN;HighlightOn=;HighlightOff=;Version Version = STN Express 8.01a;
=> s 11
SAMPLE SEARCH INITIATED 23:54:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 107473 TO ITERATE

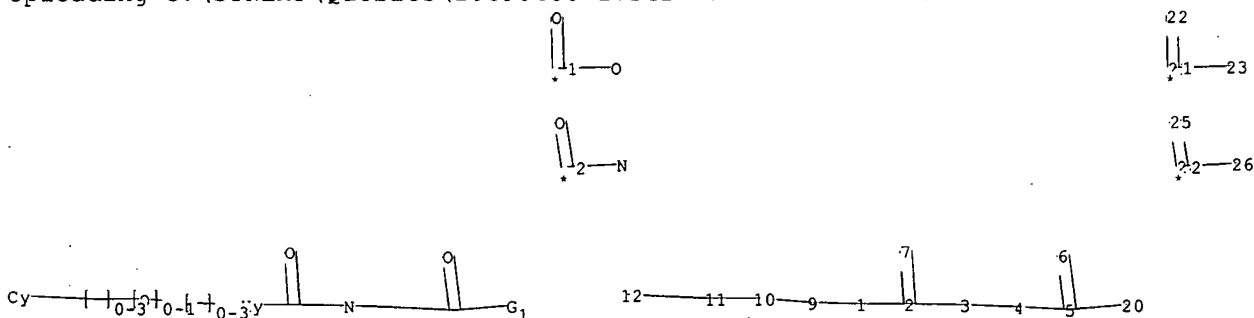
1.9% PROCESSED 2000 ITERATIONS 2 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 2130029 TO 2168891
PROJECTED ANSWERS: 1527 TO 2771

L2 2 SEA SSS SAM L1

=>

Uploading C:\STNEXP\Queries\10690400-1.str



chain nodes :

1 2 3 4 5 6 7 9 10 11 12 20 21 22 23 24 25

ring/chain nodes :

26

chain bonds :

1-2 1-9 2-3 2-7 3-4 4-5 5-6 5-20 9-10 10-11 11-12 21-22 21-23 24-25

24-26

exact/norm bonds :

1-2 1-9 2-3 2-7 3-4 5-6 5-20 9-10 10-11 11-12 21-22 21-23 24-25 24-26

exact bonds :

4-5

G1:H, [*1], [*2]

Match level :

1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS

11:CLASS 12:Atom 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS

26:CLASS

Generic attributes :

1:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

12:

Saturation : Unsaturated

Element Count :

Node 1: Limited

11/291216

N,N1
O,O0
S,S0

Node 12: Limited

N,N0-2
O,O0
S,S0

L3 STRUCTURE UPLOADED

=> s 13

SAMPLE SEARCH INITIATED 23:58:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 107473 TO ITERATE

1.9% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

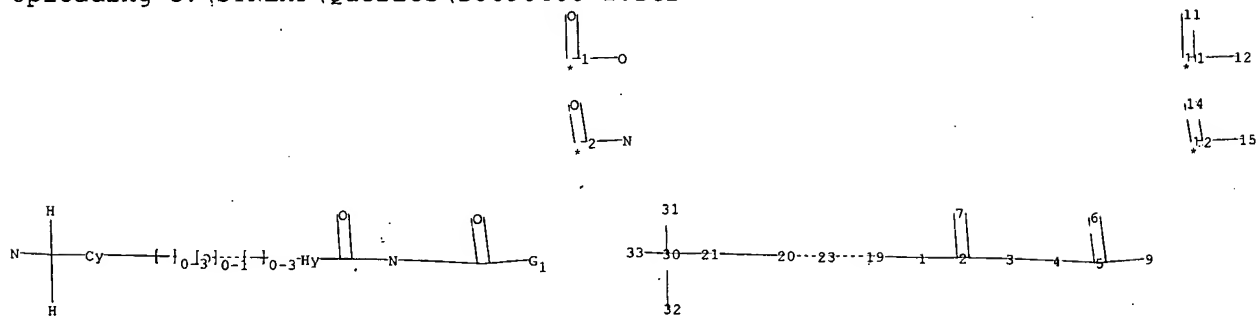
0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 2130029 TO 2168891
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=>

Uploading C:\STNEXP\Queries\10690400-2.str



chain nodes :

1 2 3 4 5 6 7 9 10 11 12 13 14 19 20 21 23 30 31 32

ring/chain nodes :

15 33

chain bonds :

1-2 1-19 2-3 2-7 3-4 4-5 5-6 5-9 10-11 10-12 13-14 13-15 19-23 20-21
20-23 21-30 30-31 30-32 30-33

exact/norm bonds :

1-2 1-19 2-3 2-7 3-4 5-6 5-9 10-11 10-12 13-14 13-15 19-23 20-21 20-23
21-30 30-33

exact bonds :

4-5 30-31 30-32

11/291216

G1:H, [*1], [*2]

Match level :

1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 19:CLASS 20:CLASS 21:Atom
23:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS

Generic attributes :

1:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

21:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

Element Count :

Node 1: Limited

N,N1

O,O0

S,S0

Node 21: Limited

N,N0-1

O,O0

S,S0

L5 STRUCTURE UPLOADED

=> s 15

SAMPLE SEARCH INITIATED 00:06:58 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 97389 TO ITERATE

2.1% PROCESSED 2000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **INCOMPLETE**

PROJECTED ITERATIONS: 1929261 TO 1966299

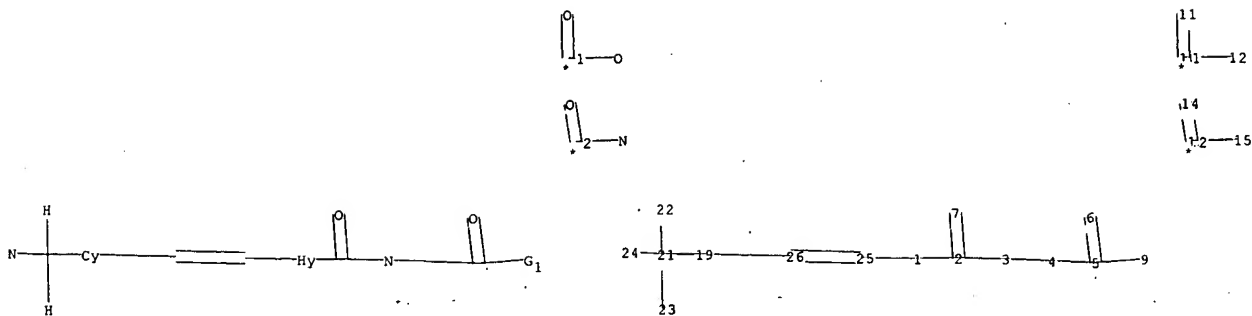
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=>

Uploading C:\STNEXP\Queries\10690400-3.str

11/291216



chain nodes :

1 2 3 4 5 6 7 9 10 11 12 13 14 19 21 22 23 25 26

ring/chain nodes :

15 24

chain bonds :

1-2 1-25 2-3 2-7 3-4 4-5 5-6 5-9 10-11 10-12 13-14 13-15 19-21 19-26
21-22 21-23 21-24 25-26

exact/norm bonds :

1-2 1-25 2-3 2-7 3-4 5-6 5-9 10-11 10-12 13-14 13-15 19-21 19-26 21-24

exact bonds :

4-5 21-22 21-23 25-26

G1:H, [*1], [*2]

Match level :

1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 19:Atom 21:CLASS 22:CLASS
23:CLASS 24:CLASS 25:CLASS 26:CLASS

Generic attributes :

1:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

19:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

Element Count :

Node 1: Limited

N,N1

O,O0

S,S0

Node 19: Limited

N,N0-1

O,O0

S,S0

11/291216

L7 STRUCTURE UPLOADED

=> s 17

SAMPLE SEARCH INITIATED 00:09:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6522 TO ITERATE

30.7% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 125598 TO 135282
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s 17 sss full

FULL SEARCH INITIATED 00:09:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 132491 TO ITERATE

100.0% PROCESSED 132491 ITERATIONS 17 ANSWERS
SEARCH TIME: 00.00.06

L9 17 SEA SSS FUL L7

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	178.38	178.59

FILE 'CAPLUS' ENTERED AT 00:10:11 ON 26 DEC 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 26 Dec 2006 VOL 146 ISS 1
FILE LAST UPDATED: 24 Dec 2006 (20061224/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 19

L10 2 L9

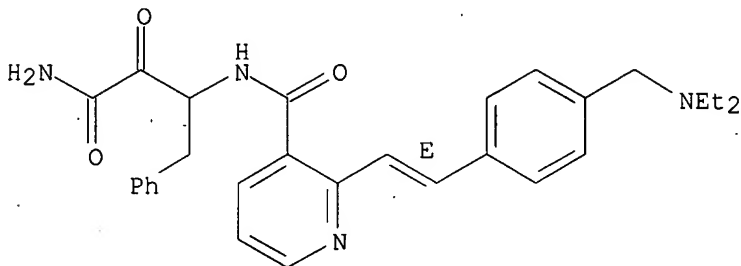
=> d 110 1-2 bib abs hitstr

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:340386 CAPLUS
DN 139:100906

11/291216

TI	Benzoylalanine-Derived Ketoamides Carrying Vinylbenzyl Amino Residues: Discovery of Potent Water-Soluble Calpain Inhibitors with Oral Bioavailability
AU	Lubisch, Wilfried; Beckenbach, Edith; Bopp, Sabina; Hofmann, Hans-Peter; Kartal, Arzu; Kaestel, Claudia; Lindner, Tanja; Metz-Garrecht, Marion; Reeb, Jutta; Regner, Ferdinand; Vierling, Michael; Moeller, Achim
CS	Neuroscience Discovery Research, Abbott GmbH & Co. KG, Ludwigshafen, D-67008, Germany
SO	Journal of Medicinal Chemistry (2003), 46(12), 2404-2412 CODEN: JMCMAR; ISSN: 0022-2623
PB	American Chemical Society
DT	Journal
LA	English
OS	CASREACT 139:100906
AB	Novel benzoylalanine-derived ketoamides were prepared and evaluated for calpain I inhibition. Derivs. carrying vinylbenzyl amino residues in the P2-P3 region inhibited calpain in nanomolar concns. and thus represent a novel class of nonpeptidic calpain inhibitors. Selected examples exhibited an improved pharmacokinetic profile including improved water-solubility and metabolic stability. In particular, these calpain inhibitors showed oral bioavailability in rats as demonstrated by N-(1-benzyl-2-carbamoyl-2-oxoethyl)-2-[E-2-(4- diethylaminomethylphenyl)ethen-1-yl]benzamide. The closely related derivative N-(1-carbamoyl-1-oxohex-1-yl)-2-[E-2-(4-dimethylaminomethylphenyl)-ethen-1- yl]benzamide (I) was evaluated for neuroprotective efficacy after exptl. traumatic brain injury in a fluid percussion model in rats. When administered after injury, I reduced the number of damaged neurons by 41%, and this result would be in line with the suggested neuroprotective efficacy of calpain inhibition.
IT	247218-50-4P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of N-(2-vinylbenzoyl)- and N-(2-vinyl-3-pyridinecarbonyl)- alaninamides as calpain inhibitors)
RN	247218-50-4 CAPLUS
CN	3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2- [(1E)-2-[4-[(diethylamino)methyl]phenyl]ethenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● 2 HCl

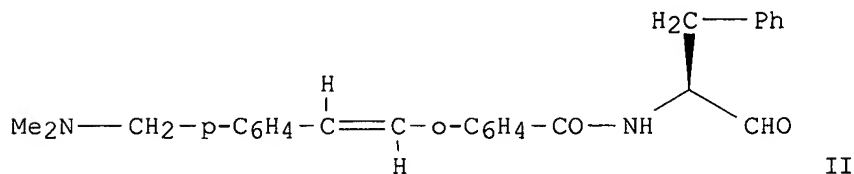
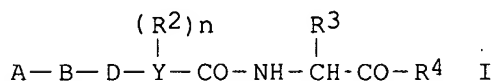
RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1999:691085 CAPLUS
DN 131:310835

11/291216

TI Preparation of cysteine protease inhibitors for therapeutic use
 IN Lubisch, Wilfried; Moller, Achim; Treiber, Hans-Jorg; Knopp, Monika
 PA BASF Aktiengesellschaft, Germany
 SO PCT Int. Appl., 52 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9954310	A2	19991028	WO 1999-EP2633	19990420
	WO 9954310	A3	20000217		
	W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HR, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, ZA, AM, AZ, KG, MD, TJ, TM				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2328396	A1	19991028	CA 1999-2328396	19990420
	AU 9939276	A	19991108	AU 1999-39276	19990420
	BR 9909774	A	20001219	BR 1999-9774	19990420
	EP 1073641	A2	20010207	EP 1999-922108	19990420
	EP 1073641	B1	20040414		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO				
	TR 200003068	T2	20010321	TR 2000-200003068	19990420
	HU 200102732	A2	20011228	HU 2001-2732	19990420
	JP 2002512231	T	20020423	JP 2000-544649	19990420
	AT 264310	T	20040415	AT 1999-922108	19990420
	ES 2220061	T3	20041201	ES 1999-922108	19990420
	US 6753327	B1	20040622	US 2000-673089	20001011
	BG 104873	A	20010731	BG 2000-104873	20001017
	NO 2000005263	A	20001019	NO 2000-5263	20001019
	HR 2000000787	A1	20010831	HR 2000-787	20001117
	ZA 2000006719	A	20020815	ZA 2000-6719	20001117
	US 2004082569	A1	20040429	US 2003-690400	20031020
PRAI	DE 1998-19818615	A	19980420		
	WO 1999-EP2633	W	19990420		
	US 2000-673089	A3	20001011		
OS	MARPAT 131:310835				
GI					



AB The invention relates to cysteine protease inhibitors of the general formula [(I); A = -(CH₂)_p-R₁; R₁ = pyrrolidine, morpholine, piperidine, -NR₅R₆, (N-substituted)piperazine; R₅, R₆ = independently H, alkyl, cyclohexyl, cyclopentyl, (CH₂)_nPh, where Ph may be R₆-substituted; p = 1-2; B = (substituted) Ph, pyridyl, pyrimidyl or pyridazyl; D = bond, -(CH₂)_m-, -CH:CH-, -C.tplbond.C-; R₂ = Cl, Br, F, alkyl, NHCO alkyl, NHSO₂ alkyl, NO₂, -O-alkyl or NH₂; R₃ = alkyl which can carry a (substituted) Ph

ring, indolyl ring or cyclohexyl ring; Y = Ph, pyridine, pyrimidine or pyrazine; R4 = H, COOR9 or CO-Z, where Z = NR10R11; R9,R10,R11 = (independently) H, (unsubstituted) (unbranched) alkyl; n = 0-2 and m = 0-4]. Thus, Et 2-bromo-benzoate and dimethyl(4-vinylbenzyl)amine were reacted, de-esterified, and the free acid intermediate reacted with (S)-phenylalaninol to give an intermediate which was reduced to give aldehyde (II) in 88% yield. Title compds. showed good results as inhibitors of calpain I and II or cathepsin B in a variety of in vivo and in vitro tests (no data given).

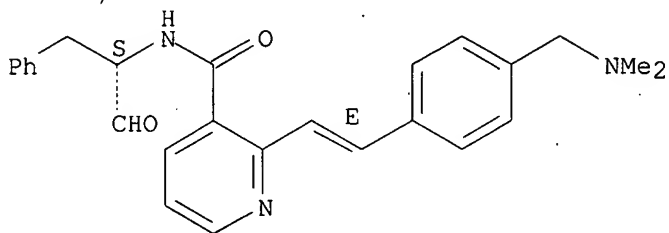
IT 247218-29-7P 247218-39-9P 247218-43-5P
247218-44-6P 247218-45-7P 247218-46-8P
247218-47-9P 247218-48-0P 247218-49-1P
247218-50-4P 247218-51-5P 247218-69-5P
247219-00-7P 247219-02-9P 247219-05-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of as cysteine protease inhibitors for therapeutic use)

RN 247218-29-7 CAPLUS

CN 3-Pyridinecarboxamide, 2-[(1E)-2-[4-[(dimethylamino)methyl]phenyl]ethenyl]-N-[(1S)-1-formyl-2-phenylethyl]- (9CI) (CA INDEX NAME)

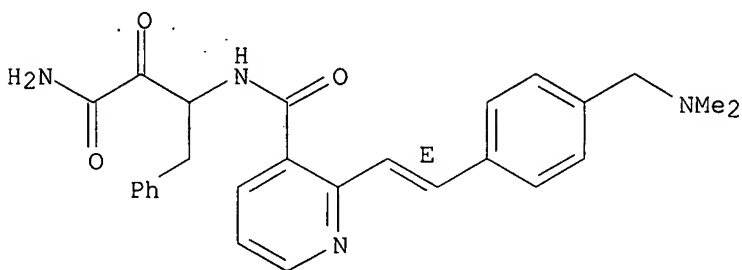
Absolute stereochemistry.
Double bond geometry as shown.



RN 247218-39-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-[(dimethylamino)methyl]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

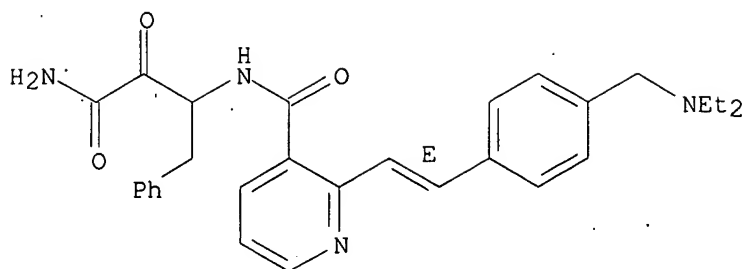


RN 247218-43-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-[(diethylamino)methyl]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

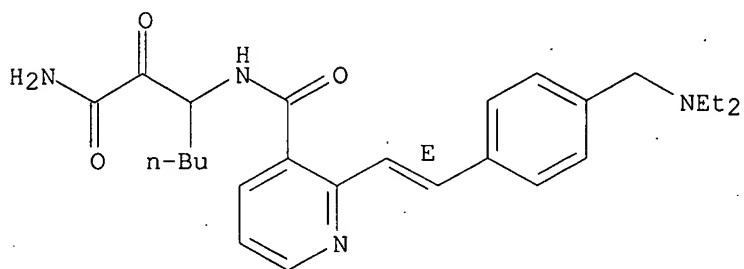
11/291216



RN 247218-44-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-(aminooxoacetyl)pentyl]-2-[(1E)-2-[4-[(diethylamino)methyl]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

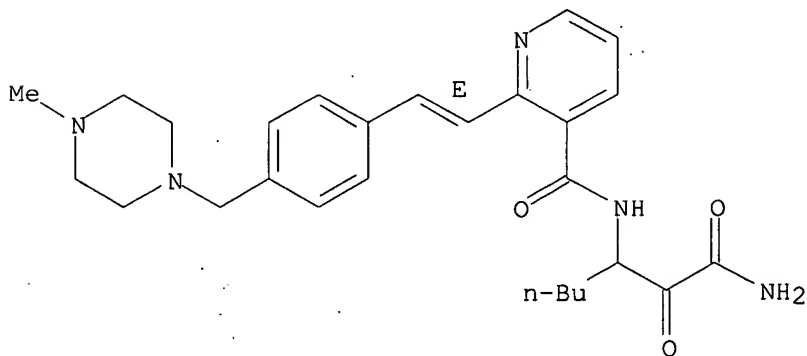
Double bond geometry as shown.



RN 247218-45-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-(aminooxoacetyl)pentyl]-2-[(1E)-2-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

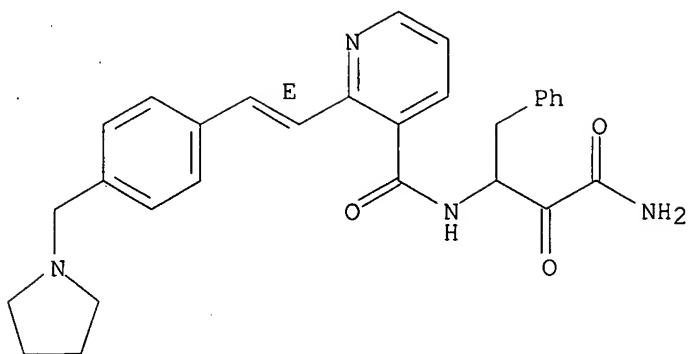


RN 247218-46-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-(1-pyrrolidinylmethyl)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

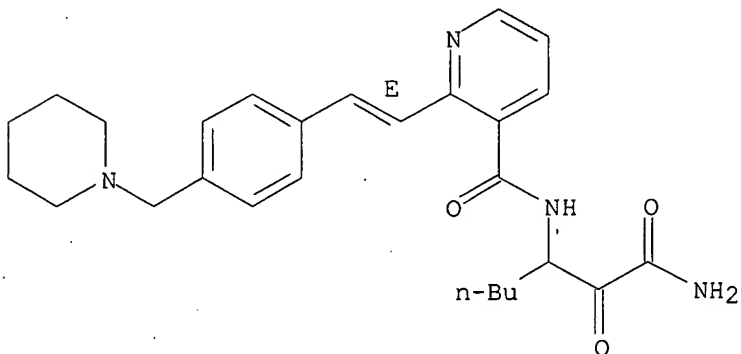
11/291216



RN 247218-47-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-(aminooxoacetyl)pentyl]-2-[(1E)-2-[4-(1-piperidinylmethyl)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

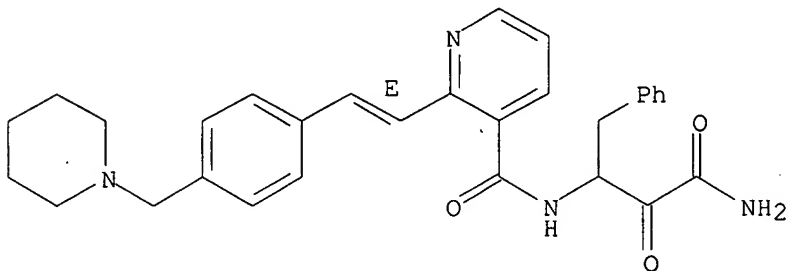
Double bond geometry as shown.



RN 247218-48-0 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-(1-piperidinylmethyl)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

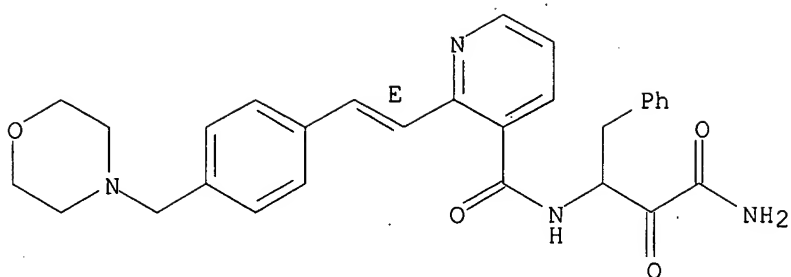


RN 247218-49-1 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-(4-morpholinylmethyl)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

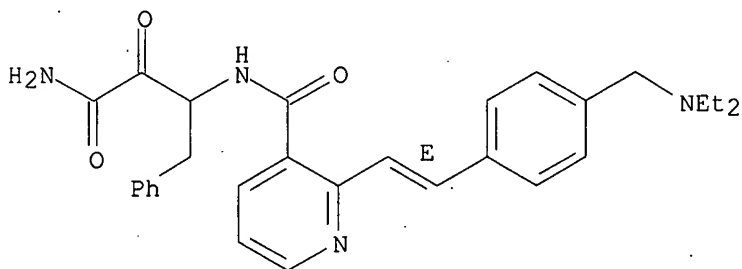
Double bond geometry as shown.

11/291216



RN 247218-50-4 CAPLUS
CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-[(diethylamino)methyl]phenyl]ethenyl]-, dihydrochloride (9CI)
(CA INDEX NAME)

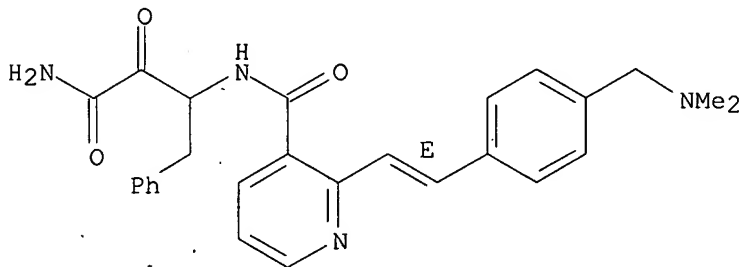
Double bond geometry as shown.



● 2 HCl

RN 247218-51-5 CAPLUS
CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-[(dimethylamino)methyl]phenyl]ethenyl]-, dihydrochloride (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

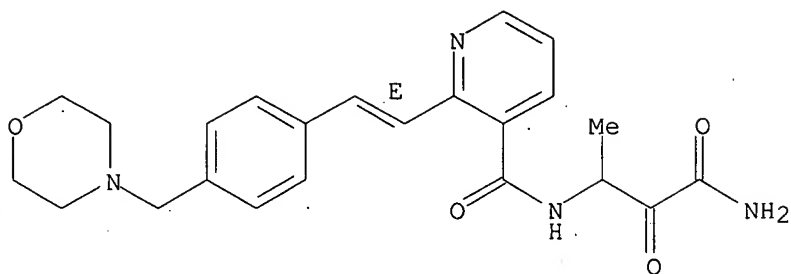


● 2 HCl

RN 247218-69-5 CAPLUS
CN 3-Pyridinecarboxamide, N-(3-amino-1-methyl-2,3-dioxopropyl)-2-[(1E)-2-[4-(4-morpholinylmethyl)phenyl]ethenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

11/291216

Double bond geometry as shown.

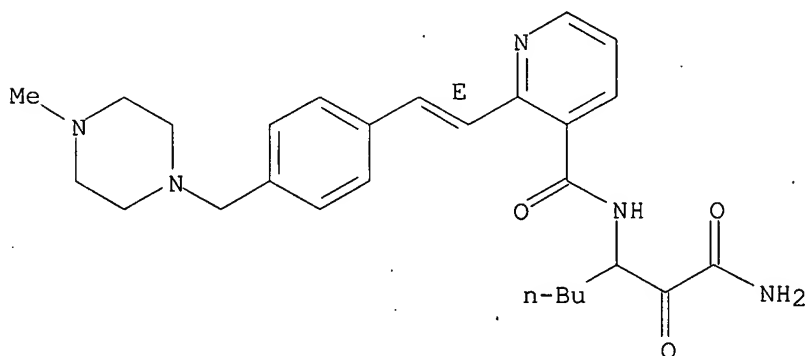


● 2 HCl

RN 247219-00-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-(aminooxoacetyl)pentyl]-2-[(1E)-2-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]ethenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.



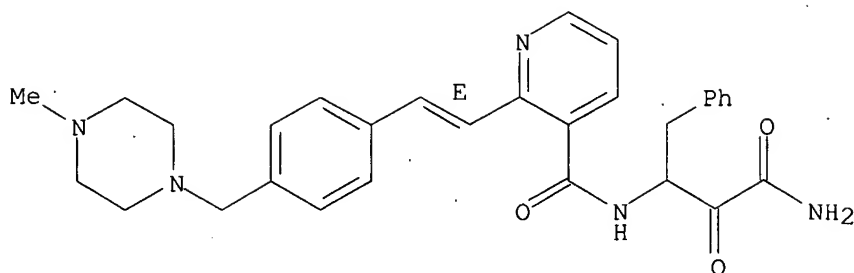
● 2 HCl

RN 247219-02-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]ethenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.

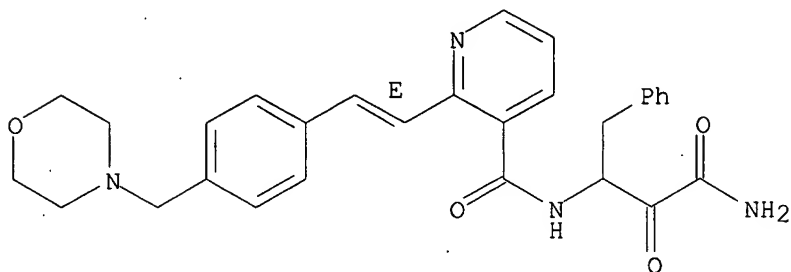
11/291216



● 2 HCl

RN 247219-05-2 CAPLUS
CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-(4-morpholinylmethyl)phenyl]ethenyl]-, dihydrochloride (9CI)
(CA INDEX NAME)

Double bond geometry as shown.



● 2 HCl

=> log h

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE

ENTRY

10.68

SINCE FILE

ENTRY

-1.50

TOTAL

SESSION

189.27

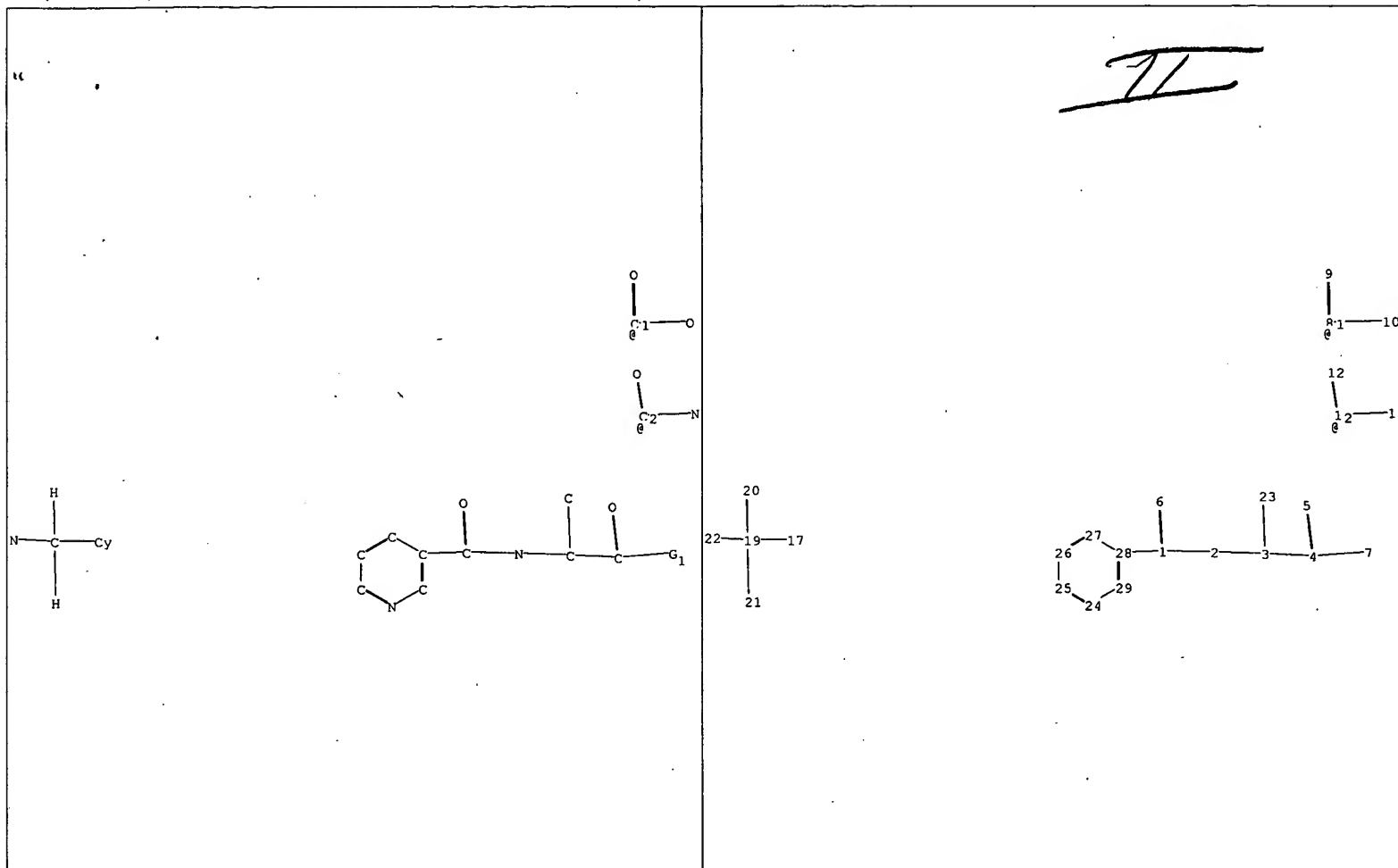
TOTAL

SESSION

-1.50

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 00:10:48 ON 26 DEC 2006



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 17 19 20 21 23

ring nodes :

24 25 26 27 28 29

ring/chain nodes :

13 22

chain bonds :

1-6 1-2 1-28 2-3 3-4 3-23 4-5 4-7 8-9 8-10 11-12 11-13 17-19 19-20 19-21
19-22

ring bonds :

24-25 24-29 25-26 26-27 27-28 28-29

exact/norm bonds :

1-6 1-2 2-3 4-5 4-7 8-9 8-10 11-12 11-13 17-19 19-22

exact bonds :

1-28 3-4 3-23 19-20 19-21

normalized bonds :

24-25 24-29 25-26 26-27 27-28 28-29

isolated ring systems :

containing 24 :

G1:H, [*1], [*2]

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 17:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS
24:Atom 25:CLASS 26:Atom 27:Atom 28:Atom 29:Atom

Generic attributes :

17:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Element Count :

Node 17: Limited

N,N0-1

O,O0

S,S0

11/291216

\$%^STN;HighlightOn=;HighlightOff=;Version Version =.STN Express 8.01a;
=> s 13 sss full
FULL SEARCH INITIATED 23:48:56 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 11521 TO ITERATE

100.0% PROCESSED 11521 ITERATIONS 50 ANSWERS
SEARCH TIME: 00.00.01

L5 50 SEA SSS FUL L3

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.76

FILE 'CAPLUS' ENTERED AT 23:49:02 ON 07 JAN 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 7 Jan 2007 VOL 146 ISS 3
FILE LAST UPDATED: 5 Jan 2007 (20070105/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 15

L6 3 L5

=> d 16 1-3 bib abs hitstr

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:340386 CAPLUS
DN 139:100906
TI Benzoylalanine-Derived Ketoamides Carrying Vinylbenzyl Amino Residues: Discovery of Potent Water-Soluble Calpain Inhibitors with Oral Bioavailability
AU Lubisch, Wilfried; Beckenbach, Edith; Bopp, Sabina; Hofmann, Hans-Peter; Kartal, Arzu; Kaestel, Claudia; Lindner, Tanja; Metz-Garrecht, Marion; Reeb, Jutta; Regner, Ferdinand; Vierling, Michael; Moeller, Achim
CS Neuroscience Discovery Research, Abbott GmbH & Co. KG, Ludwigshafen, D-67008, Germany
SO Journal of Medicinal Chemistry (2003), 46(12), 2404-2412
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 139:100906
AB Novel benzoylalanine-derived ketoamides were prepared and evaluated for calpain I inhibition. Derivs. carrying vinylbenzyl amino residues in the

P2-P3 region inhibited calpain in nanomolar concns. and thus represent a novel class of nonpeptidic calpain inhibitors. Selected examples exhibited an improved pharmacokinetic profile including improved water-solubility and metabolic stability. In particular, these calpain inhibitors showed oral bioavailability in rats as demonstrated by N-(1-benzyl-2-carbamoyl-2-oxoethyl)-2-[E-2-(4-diethylaminomethylphenyl)ethen-1-yl]benzamide. The closely related derivative N-(1-carbamoyl-1-oxohex-1-yl)-2-[E-2-(4-dimethylaminomethylphenyl)-ethen-1-yl]benzamide (I) was evaluated for neuroprotective efficacy after exptl. traumatic brain injury in a fluid percussion model in rats. When administered after injury, I reduced the number of damaged neurons by 41%, and this result would be in line with the suggested neuroprotective efficacy of calpain inhibition.

IT 247218-50-4P

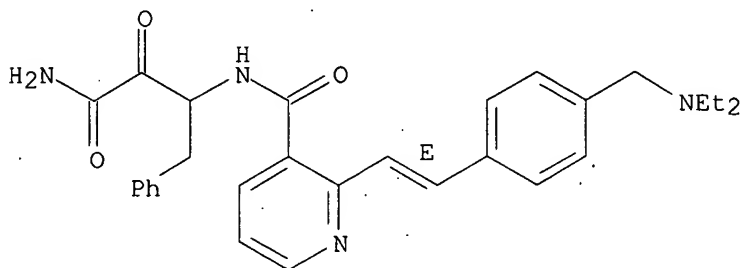
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of N-(2-vinylbenzoyl)- and N-(2-vinyl-3-pyridinecarbonyl)-alaninamides as calpain inhibitors)

RN 247218-50-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-
[(1E)-2-[4-[(diethylamino)methyl]phenyl]ethenyl]-, dihydrochloride (9CI)
(CA INDEX NAME)

Double bond geometry as shown.



● 2 HCl

RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN.

AN 1999:691085 CAPLUS

DN 131:310835

TI	Preparation of cysteine protease inhibitors for therapeutic use
----	-----------------------------------------------------------------

IN Lubisch, Wilfried; Moller, Achim; Treiber, Hans-Jorg; Knopp, Monika

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 52 pp.

CODEN: PIXXD2

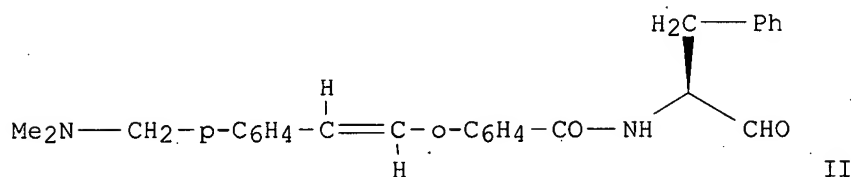
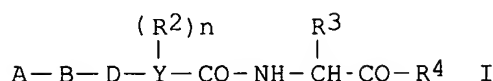
DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9954310	A2	19991028	WO 1999-EP2633	19990420
WO 9954310	A3	20000217		
W:	AL, AU, BG, BR, BY, CA, CN, CZ, GE, HR, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, ZA, AM, AZ, KG, MD, TJ, TM			
RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,			

PT, SE				
CA 2328396	A1	19991028	CA 1999-2328396	19990420
AU 9939276	A	19991108	AU 1999-39276	19990420
BR 9909774	A	20001219	BR 1999-9774	19990420
EP 1073641	A2	20010207	EP 1999-922108	19990420
EP 1073641	B1	20040414		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO				
TR 200003068	T2	20010321	TR 2000-200003068	19990420
HU 200102732	A2	20011228	HU 2001-2732	19990420
JP 2002512231	T	20020423	JP 2000-544649	19990420
AT 264310	T	20040415	AT 1999-922108	19990420
ES 2220061	T3	20041201	ES 1999-922108	19990420
US 6753327	B1	20040622	US 2000-673089	20001011
BG 104873	A	20010731	BG 2000-104873	20001017
NO 2000005263	A	20001019	NO 2000-5263	20001019
HR 2000000787	A1	20010831	HR 2000-787	20001117
ZA 2000006719	A	20020815	ZA 2000-6719	20001117
US 2004082569	A1	20040429	US 2003-690400	20031020
PRAI DE 1998-19818615	A	19980420		
WO 1999-EP2633	W	19990420		
US 2000-673089	A3	20001011		
OS MARPAT 131:310835				
GI				



AB. The invention relates to cysteine protease inhibitors of the general formula [(I); A = -(CH₂)_p-R₁; R₁ = pyrrolidine, morpholine, piperidine, -NR₅R₆, (N-substituted)piperazine; R₅, R₆ = independently H, alkyl, cyclohexyl, cyclopentyl, (CH₂)_nPh, where Ph may be R₆-substituted; p = 1-2; B = (substituted) Ph, pyridyl, pyrimidyl or pyridazyl; D = bond, -(CH₂)_m-, -CH:CH-, -C.tplbond.C-; R₂ = Cl, Br, F, alkyl, NHCO alkyl, NHSO₂ alkyl, NO₂, -O-alkyl or NH₂; R₃ = alkyl which can carry a (substituted) Ph ring, indolyl ring or cyclohexyl ring; Y = Ph, pyridine, pyrimidine or pyrazine; R₄ = H, COOR₉ or CO-Z, where Z = NR₁₀R₁₁; R₉, R₁₀, R₁₁ = (independently) H, (unsubstituted) (unbranched) alkyl; n = 0-2 and m = 0-4]. Thus, Et 2-bromo-benzoate and dimethyl(4-vinylbenzyl)amine were reacted, de-esterified, and the free acid intermediate reacted with (S)-phenylalaninol to give an intermediate which was reduced to give aldehyde (II) in 88% yield. Title compds. showed good results as inhibitors of calpain I and II or cathepsin B in a variety of in vivo and in vitro tests (no data given).

IT 247218-29-7P 247218-39-9P 247218-43-5P
 247218-44-6P 247218-45-7P 247218-46-8P
 247218-47-9P 247218-48-0P 247218-49-1P
 247218-50-4P 247218-51-5P 247218-69-5P
 247219-00-7P 247219-02-9P 247219-05-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

11/291216

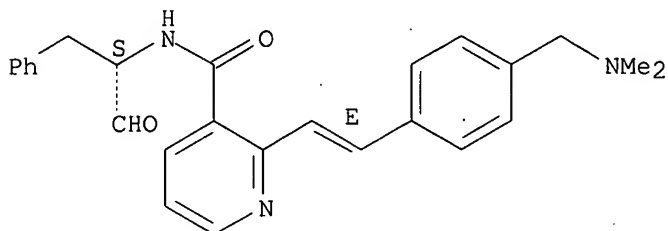
BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of as cysteine protease inhibitors for therapeutic use)

RN 247218-29-7 CAPLUS

CN 3-Pyridinecarboxamide, 2-[(1E)-2-[4-[(dimethylamino)methyl]phenyl]ethenyl]-
N-[(1S)-1-formyl-2-phenylethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

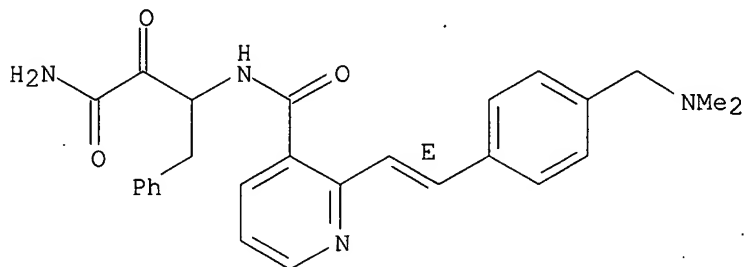
Double bond geometry as shown.



RN 247218-39-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-
[(1E)-2-[4-[(dimethylamino)methyl]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

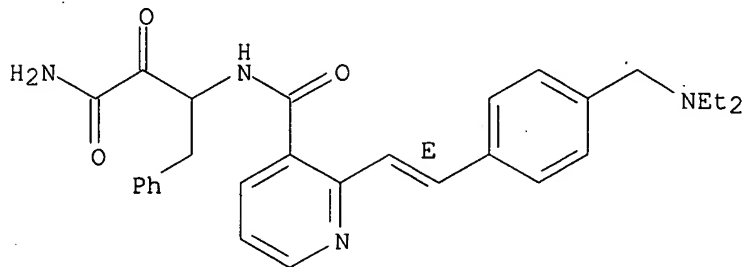
Double bond geometry as shown.



RN 247218-43-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-
[(1E)-2-[4-[(diethylamino)methyl]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

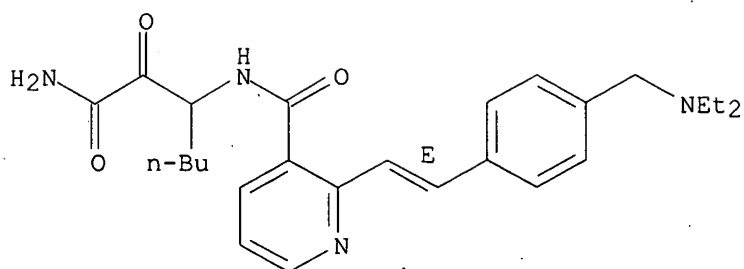


RN 247218-44-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-(aminooxoacetyl)pentyl]-2-[(1E)-2-[4-
[(diethylamino)methyl]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

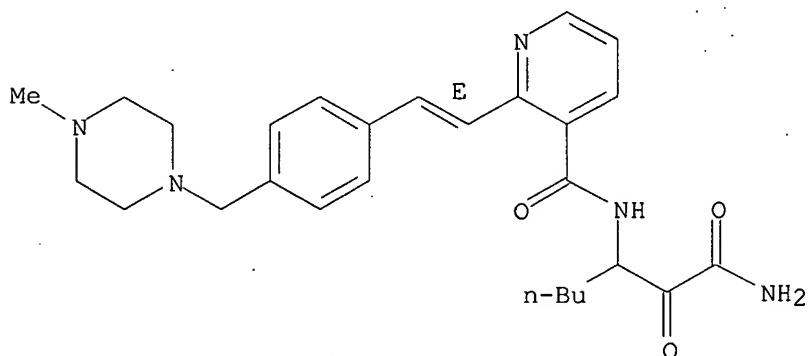
11/291216



RN 247218-45-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-(aminooxoacetyl)pentyl]-2-[(1E)-2-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

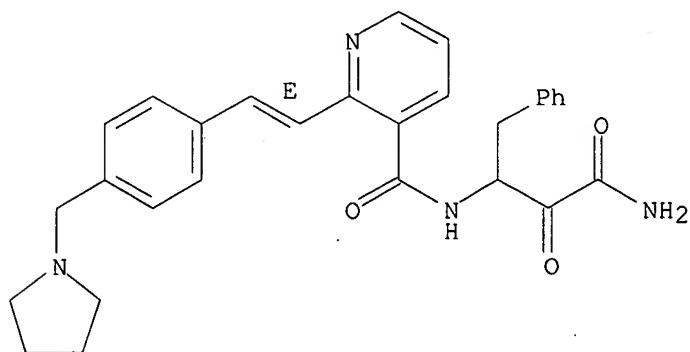
Double bond geometry as shown.



RN 247218-46-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-(1-pyrrolidinylmethyl)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

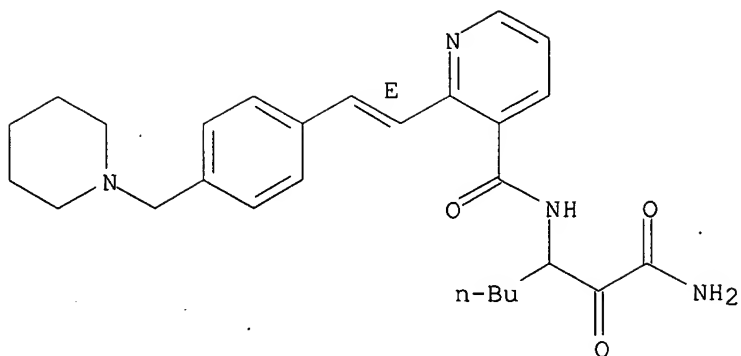


RN 247218-47-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-(aminooxoacetyl)pentyl]-2-[(1E)-2-[4-(1-piperidinylmethyl)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

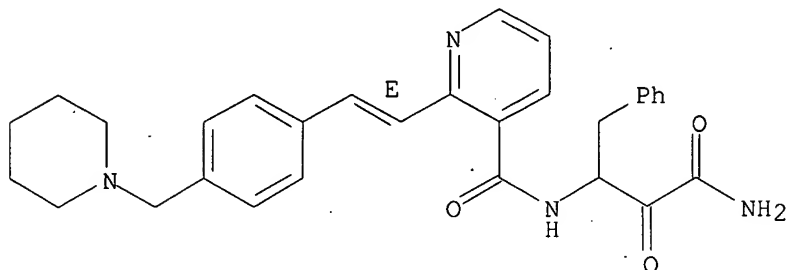
11/291216



RN 247218-48-0 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-(1-piperidinylmethyl)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

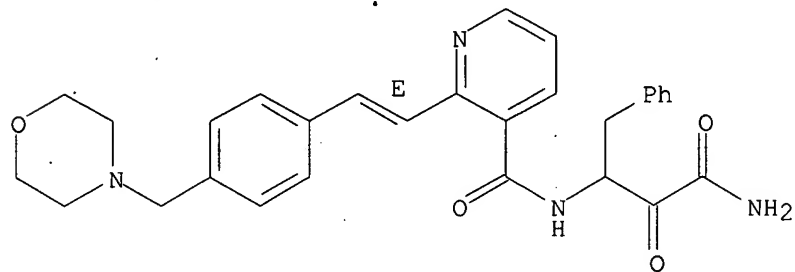
Double bond geometry as shown.



RN 247218-49-1 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-(4-morpholinylmethyl)phenyl]ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

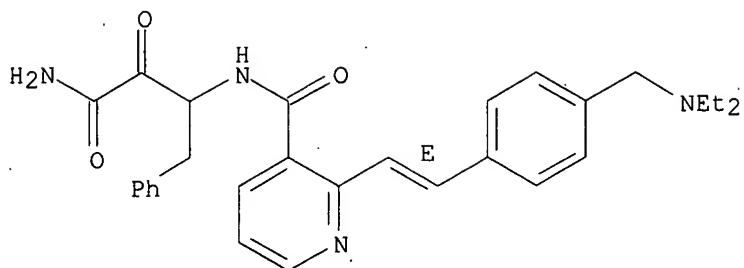


RN 247218-50-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-[(diethylamino)methyl]phenyl]ethenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.

4

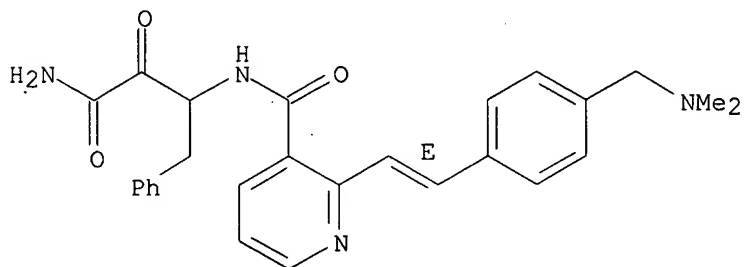


● 2 HCl

RN 247218-51-5 CAPLUS

3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-
 [(1E)-2-[4-[(dimethylamino)methyl]phenyl]ethenyl]-, dihydrochloride (9CI)
 (CA INDEX NAME)

Double bond geometry as shown.

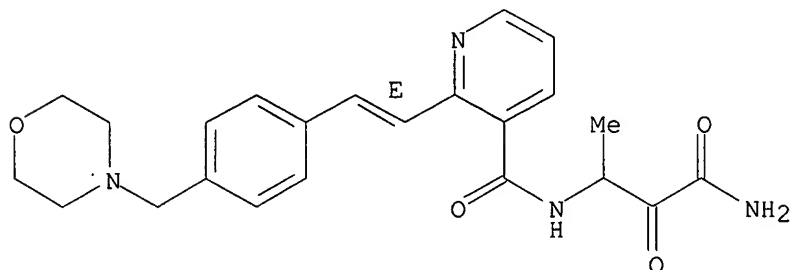


● 2 HCl

RN 247218-69-5 CAPLUS

CN 3-Pyridinecarboxamide, N-(3-amino-1-methyl-2,3-dioxopropyl)-2-[(1E)-2-[4-(4-morpholinylmethyl)phenyl]ethenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.



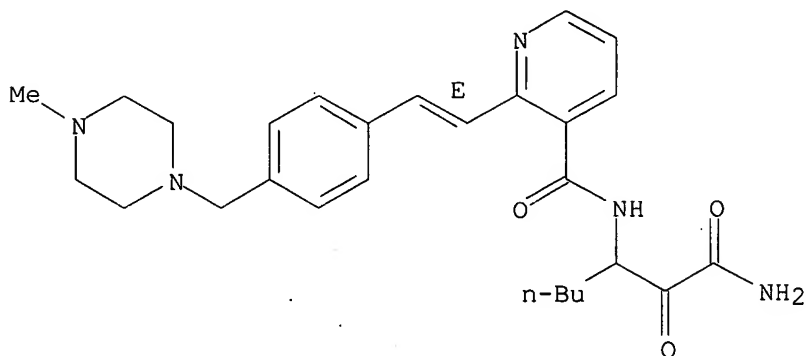
● 2 HCl

11/291216

RN 247219-00-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-(aminooxoacetyl)pentyl]-2-[(1E)-2-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]ethenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.

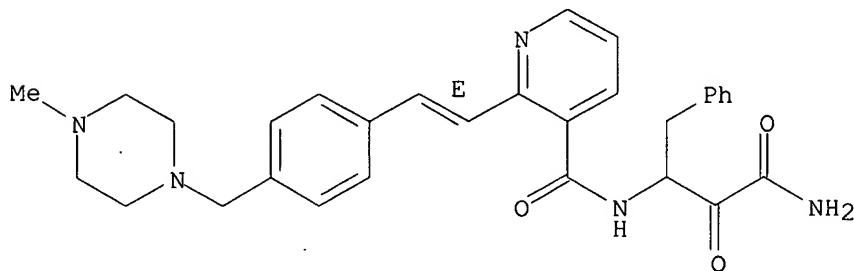


● 2 HCl

RN 247219-02-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]ethenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.

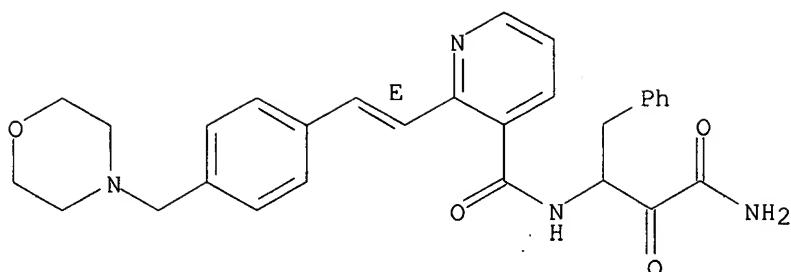


● 2 HCl

RN 247219-05-2 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[(1E)-2-[4-(4-morpholinylmethyl)phenyl]ethenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● 2 HCl

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1999:691081 CAPLUS
 DN 131:299460
 TI Preparation of piperazinylnicotinamides and related compounds as calpain and cathepsin inhibitors.
 IN Lubisch, Wilfried; Moller, Achim; Treiber, Hans-Jorg; Knopp, Monika
 PA BASF Aktiengesellschaft, Germany
 SO PCT Int. Appl., 103 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9954305	A1	19991028	WO 1999-EP2632	19990420
	W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HR, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, ZA, AM, AZ, KG, MD, TJ, TM				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2328440	A1	19991028	CA 1999-2328440	19990420
	AU 9938190	A	19991108	AU 1999-38190	19990420
	BR 9909773	A	20001219	BR 1999-9773	19990420
	TR 200003004	T2	20010221	TR 2000-200003004	19990420
	EP 1082308	A1	20010314	EP 1999-920710	19990420
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO				
	HU 200101599	A2	20010928	HU 2001-1599	19990420
	JP 2002512229	T	20020423	JP 2000-544646	19990420
	US 6562827	B1	20030513	US 2000-647681	20001003
	NO 2000005237	A	20001018	NO 2000-5237	20001018
	HR 2000000764	A1	20010630	HR 2000-764	20001110
	BG 104961	A	20010531	BG 2000-104961	20001117
	ZA 2000006712	A	20020923	ZA 2000-6712	20001117
PRAI	DE 1998-19817462	A	19980420		
	WO 1999-EP2632	W	19990420		

OS MARPAT 131:299460

AB A(CH₂)_xR₁R₂BCONHCHR₃COR₄ [A = (substituted) piperazinyl, homopiperazinyl, hexahydroazepinyl, piperidinyl, pyrrolidinyl; B = Ph, pyridyl, pyrimidinyl, pyrazinyl, pyridazinyl; R₁, R₂ = H, alkyl, alkoxy, OH, Cl, F, Br, iodo, CF₃, NO₂, NH₂, cyano, CO₂H, alkoxycarbonyl, alkylcarbonylamino, etc.; R₃ = alkyl, methylthioalkyl, cyclohexylalkyl, cyclopentylalkyl, cycloheptylalkyl, phenylalkyl, pyridylalkyl, pyrimidinylalkyl, pyridazinylalkyl, indolylalkyl, etc.; R₄ = H, COR₈; R₈ = OR₉, NR₉R₁₀; R₉ = H, alkyl; R₁₀ = H, (substituted) alkyl], were prepared for treatment of

neurodegenerative disease (no data). Thus, Me chloronicotinate, 4-pyridylpiperazine, and 18-crown-6 were heated at 100° in DMF to give 82% Me 2-[4-(pyrid-4-yl)piperazin-1-yl]nicotinate. The latter was saponified with LiOH in THF/H₂O and the acid was stirred with Et₃N and Na₂SO₄ in CH₂Cl₂/DMF; phenylalanine, HOBt, and EDC were added at 0° followed by stirring overnight at room temperature to give 2-[4-(pyrid-4-yl)piperazin-1-yl]nicotinic acid-N-(3-phenylpropan-1-ol-2-yl)amide. This was stirred with SO₃.pyridine and Et₃N in Me₂SO to give 2-[4-(pyrid-4-yl)piperazin-1-yl]nicotinic acid-N-(3-phenylpropan-1-ol-2-yl)amide.

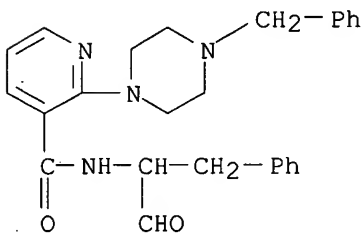
IT. 247116-90-1P 247116-91-2P 247116-92-3P
 247116-93-4P 247116-94-5P 247116-95-6P
 247116-96-7P 247116-98-9P 247117-01-7P
 247117-02-8P 247117-04-0P 247117-05-1P
 247117-06-2P 247117-07-3P 247117-10-8P
 247117-11-9P 247117-12-0P 247117-13-1P
 247117-14-2P 247117-15-3P 247117-17-5P
 247117-19-7P 247117-20-0P 247117-21-1P
 247117-22-2P 247117-24-4P 247117-28-8P
 247117-30-2P 247117-33-5P 247117-34-6P
 247117-35-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of piperazinylnicotinamides and related compds. as calpain and cathepsin inhibitors)

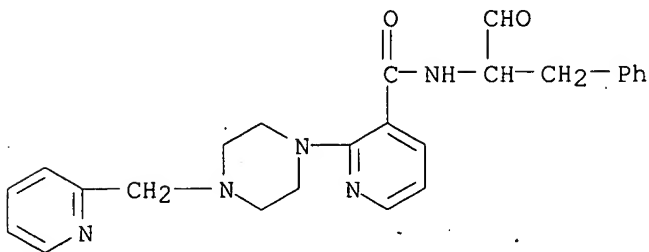
RN 247116-90-1 CAPLUS

CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 247116-91-2 CAPLUS

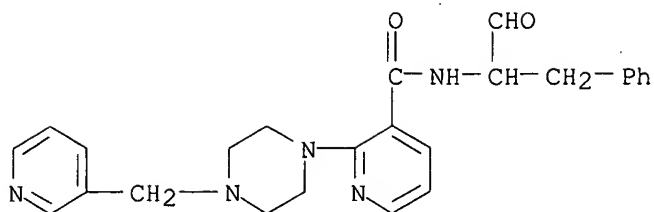
CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[4-(2-pyridinylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



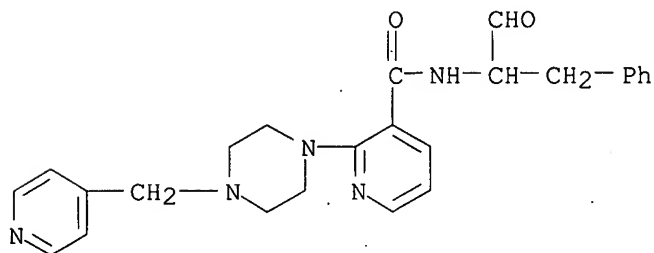
RN 247116-92-3 CAPLUS

CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[4-(3-pyridinylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

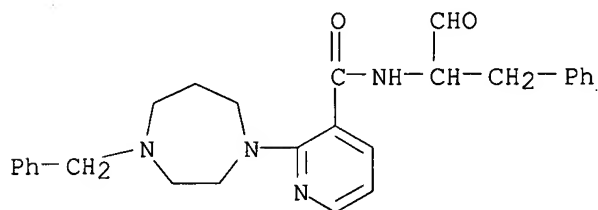
11/291216



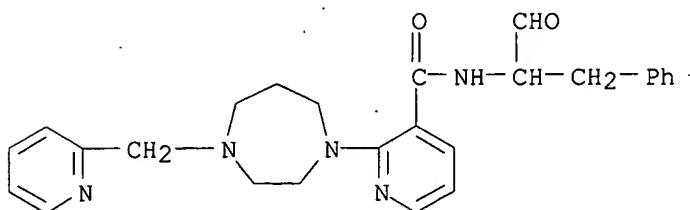
RN 247116-93-4 CAPLUS
CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[4-(4-pyridinylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 247116-94-5 CAPLUS
CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[hexahydro-4-(phenylmethyl)-1H-1,4-diazepin-1-yl]- (9CI) (CA INDEX NAME)

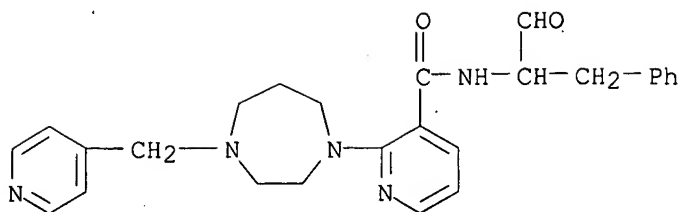


RN 247116-95-6 CAPLUS
CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[hexahydro-4-(2-pyridinylmethyl)-1H-1,4-diazepin-1-yl]- (9CI) (CA INDEX NAME)

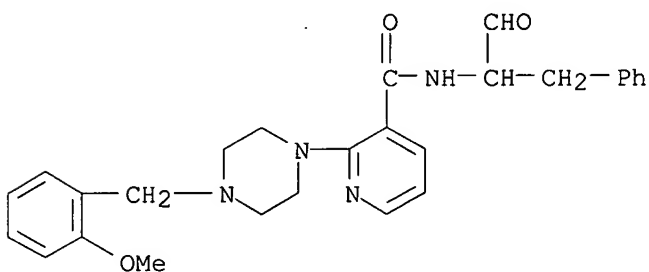


RN 247116-96-7 CAPLUS
CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[hexahydro-4-(4-pyridinylmethyl)-1H-1,4-diazepin-1-yl]- (9CI) (CA INDEX NAME)

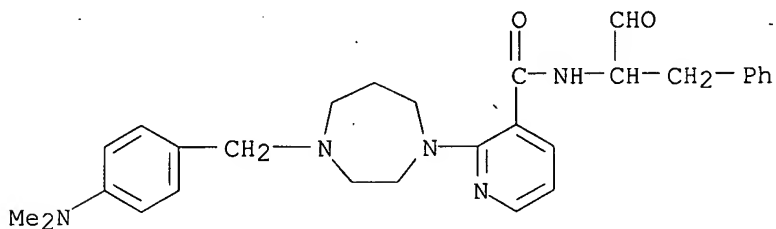
11/291216



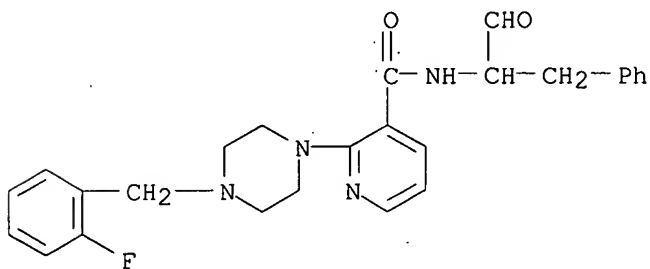
RN 247116-98-9 CAPLUS
CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[4-[(2-methoxyphenyl)methyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 247117-01-7 CAPLUS
CN 3-Pyridinecarboxamide, 2-[4-[[4-(dimethylamino)phenyl]methyl]hexahydro-1H-1,4-diazepin-1-yl]-N-(1-formyl-2-phenylethyl)- (9CI) (CA INDEX NAME)

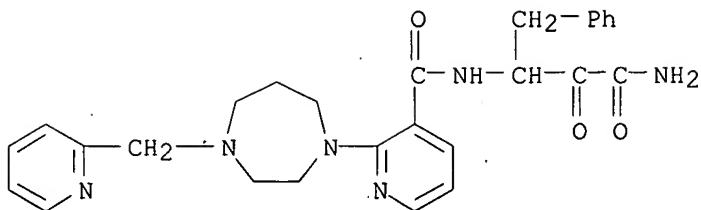


RN 247117-02-8 CAPLUS
CN 3-Pyridinecarboxamide, 2-[4-[(2-fluorophenyl)methyl]-1-piperazinyl]-N-(1-formyl-2-phenylethyl)- (9CI) (CA INDEX NAME)

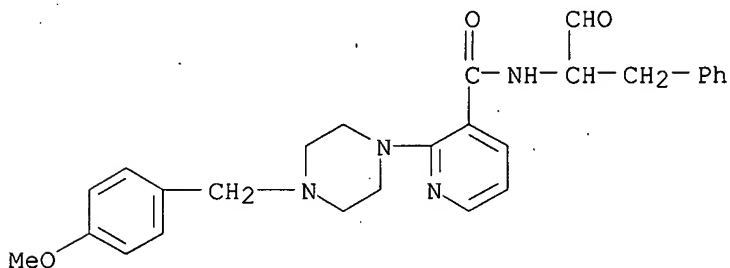


RN 247117-04-0 CAPLUS
CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[hexahydro-4-(2-pyridinylmethyl)-1H-1,4-diazepin-1-yl]- (9CI) (CA INDEX NAME)

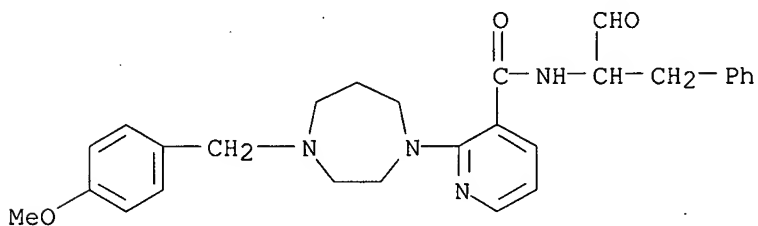
NAME)



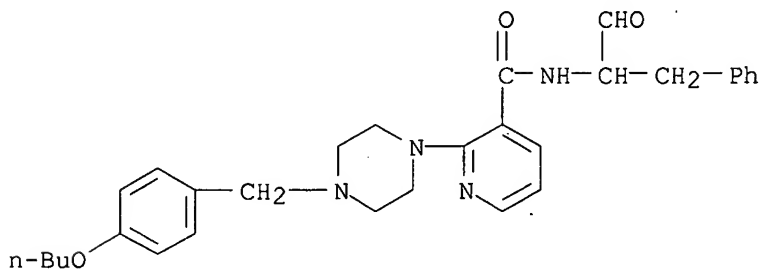
CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[4-[(4-methoxyphenyl)methyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[hexahydro-4-[(4-methoxyphenyl)methyl]-1H-1,4-diazepin-1-yl]- (9CI) (CA INDEX NAME)



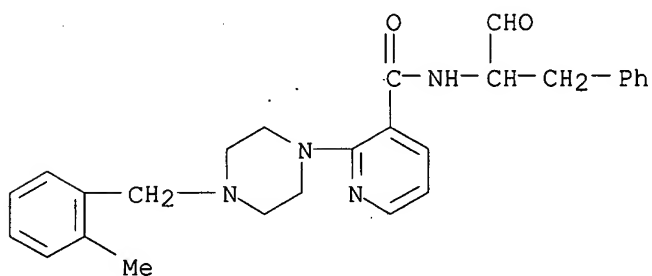
CN	3-Pyridinecarboxamide, 2-[4-[(4-butoxyphenyl)methyl]-1-piperazinyl]-N-(1-formyl-2-phenylethyl)- (9CI) (CA INDEX NAME)
----	-----------------------------------------------------------------------------------------------------------------------



RN 247117-10-8 CAPLUS

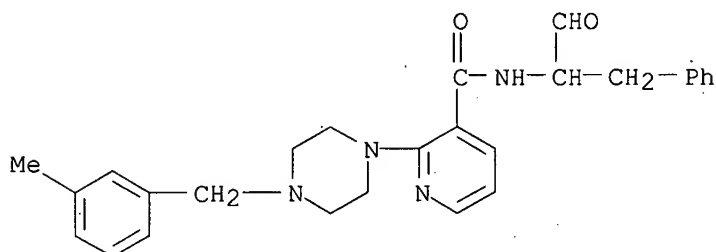
11/291216

CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[4-[(2-methylphenyl)methyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



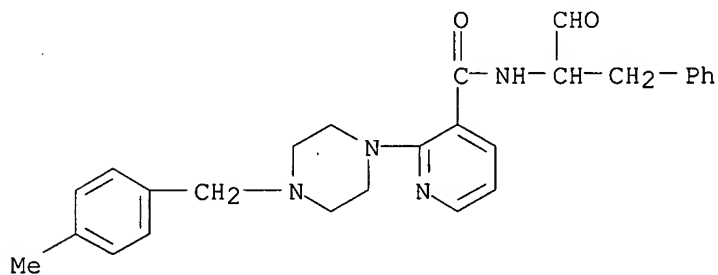
RN 247117-11-9 CAPLUS

CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[4-[(3-methylphenyl)methyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



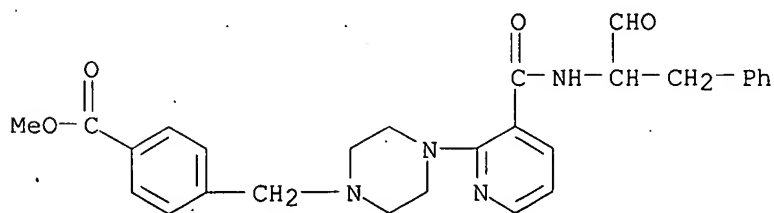
RN 247117-12-0 CAPLUS

CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[4-[(4-methylphenyl)methyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 247117-13-1 CAPLUS

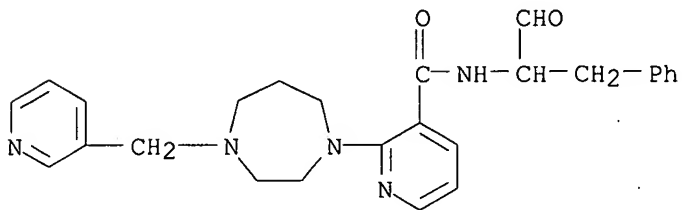
CN Benzoic acid, 4-[[[4-[3-[[[1-formyl-2-phenylethyl)amino]carbonyl]-2-pyridinyl]-1-piperazinyl)methyl]-, methyl ester (9CI) (CA INDEX NAME)



11/291216

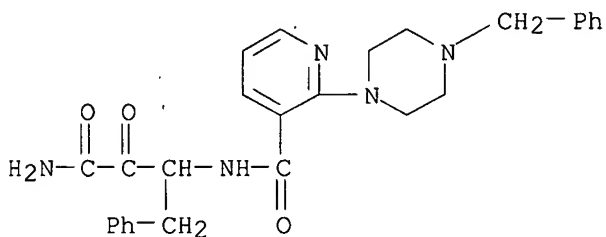
RN 247117-14-2 CAPLUS

CN 3-Pyridinecarboxamide, N-(1-formyl-2-phenylethyl)-2-[hexahydro-4-(3-pyridinylmethyl)-1H-1,4-diazepin-1-yl]- (9CI) (CA INDEX NAME)



RN 247117-15-3 CAPLUS

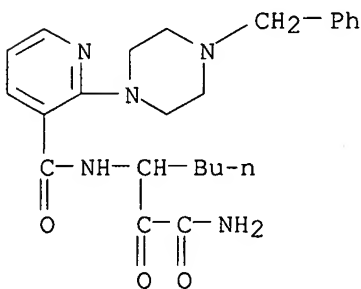
CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-2-[4-(phenylmethyl)-1-piperazinyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 247117-17-5 CAPLUS

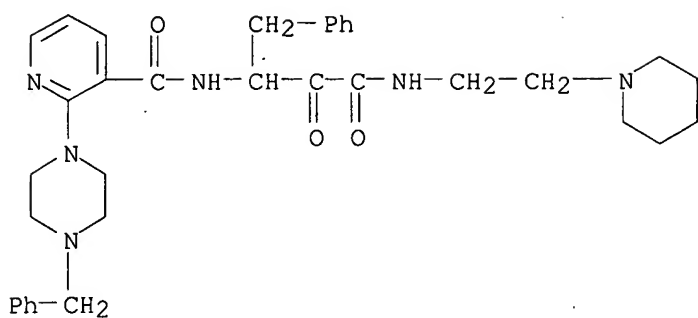
CN 3-Pyridinecarboxamide, N-[1-(aminooxoacetyl)pentyl]-2-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 247117-19-7 CAPLUS

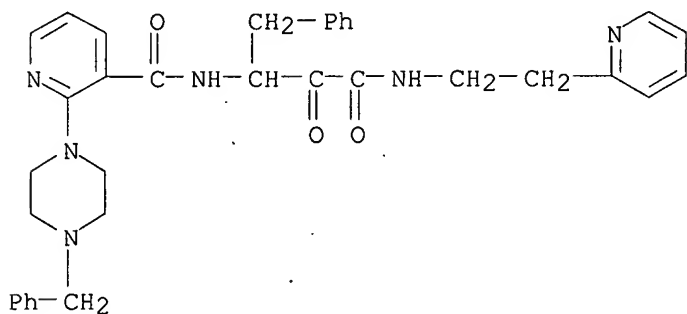
CN 3-Pyridinecarboxamide, N-[2,3-dioxo-1-(phenylmethyl)-3-[[2-(1-piperidinyl)ethyl]amino]propyl]-2-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

11/291216



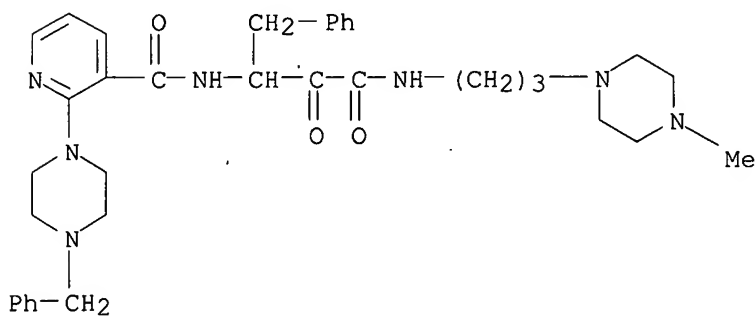
RN 247117-20-0 CAPLUS

CN 3-Pyridinecarboxamide, N-[2,3-dioxo-1-(phenylmethyl)-3-[[2-(2-pyridinyl)ethyl]amino]propyl]-2-[4-(phenylmethyl)-1-piperazinyl]- (9CI)
(CA INDEX NAME)



RN 247117-21-1 CAPLUS

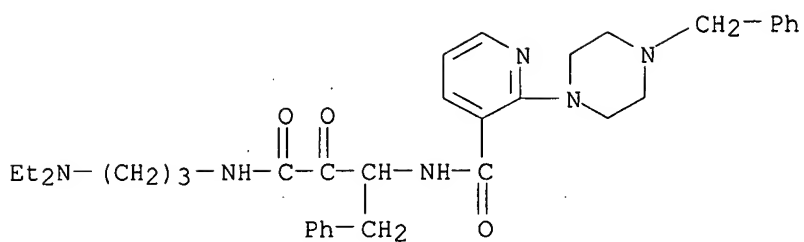
CN 3-Pyridinecarboxamide, N-[3-[[3-(4-methyl-1-piperazinyl)propyl]amino]-2,3-dioxo-1-(phenylmethyl)propyl]-2-[4-(phenylmethyl)-1-piperazinyl]- (9CI)
(CA INDEX NAME)



RN 247117-22-2 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-[[3-(diethylamino)propyl]amino]-2,3-dioxo-1-(phenylmethyl)propyl]-2-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

11/291216



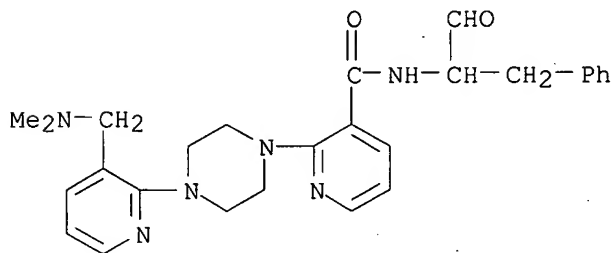
RN 247117-24-4 CAPLUS

CN 3-Pyridinecarboxamide, 2-[4-[3-[(dimethylamino)methyl]-2-pyridinyl]-1-piperazinyl]-N-(1-formyl-2-phenylethyl)-, (2E)-2-butenedioate (1:3) (9CI)
(CA INDEX NAME)

CM 1

CRN 247117-23-3

CMF C27 H32 N6 O2

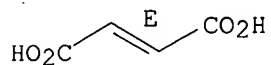


CM 2

CRN 110-17-8

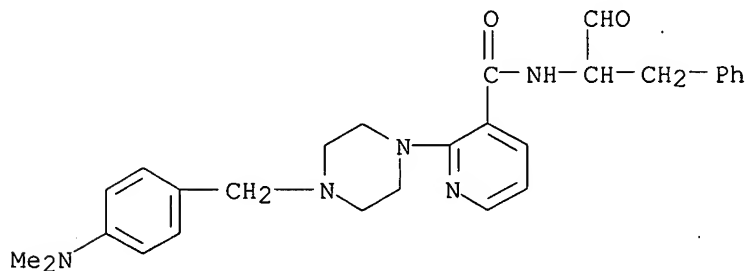
CMF C4 H4 O4

Double bond geometry as shown.



RN 247117-28-8 CAPLUS

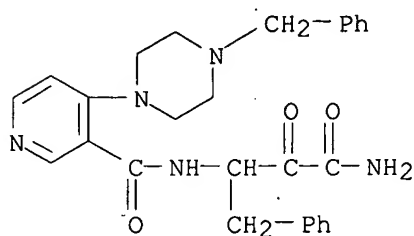
CN 3-Pyridinecarboxamide, 2-[4-[4-(dimethylamino)phenyl]methyl]-1-piperazinyl]-N-(1-formyl-2-phenylethyl)- (9CI) (CA INDEX NAME)



RN 247117-30-2 CAPLUS

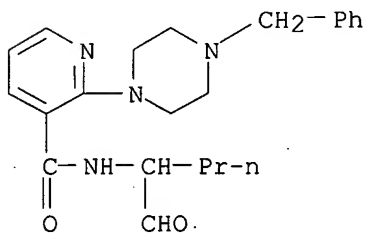
11/291216

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-4-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



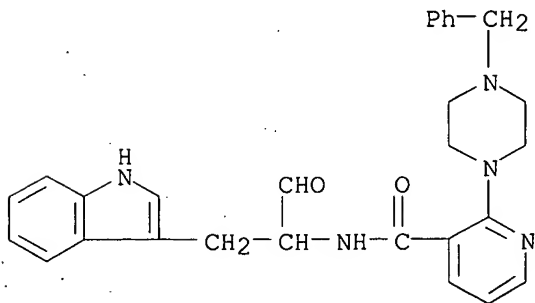
RN 247117-33-5 CAPLUS

CN 3-Pyridinecarboxamide, N-(1-formylbutyl)-2-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 247117-34-6 CAPLUS

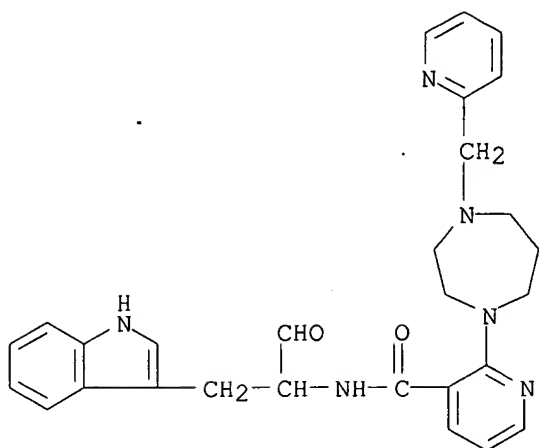
CN 3-Pyridinecarboxamide, N-[1-formyl-2-(1H-indol-3-yl)ethyl]-2-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 247117-35-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-formyl-2-(1H-indol-3-yl)ethyl]-2-[hexahydro-4-(2-pyridinylmethyl)-1H-1,4-diazepin-1-yl]- (9CI) (CA INDEX NAME)

11/291216



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
16.28	189.04

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.34	-2.34

CA SUBSCRIBER PRICE

FILE 'CAOLD' ENTERED AT 23:49:33 ON 07 JAN 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> s 15

L7

0 L5

=> log h

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.45	189.49

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

11/291216

CA SUBSCRIBER PRICE

0.00

-2.34

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 23:49:44 ON 07 JAN 2007